

Plan of Operation (PO) for the Panama Canal Watershed Conservation Project

Activities	Results	Calendar year						Person in charge
		2000	2001	2002	2003	2004	2005	
0 Project management, consolidation, and discussion of the results								
(1) Programming								
1) Prepare annual operational plans	Annual plan of operation							Manager/Chief Advisor
(2) Monitoring and evaluation								
1) Monitoring	Monitoring report							Manager/Chief Advisor
2) Midterm evaluation	Midterm evaluation report							Manager/Chief Advisor
3) Final evaluation	Final evaluation report							Manager/Chief Advisor
(3) Joint Coordination Committee								
1) Joint Coordination Committee meetings	Minutes of the meeting of the Joint Coordination Committee							Manager/Chief Advisor
(4) Consolidation and dissemination of the results								
1) Hold workshops for governments and NGOs related to the promotion for the participatory conservation of the watershed based on the Project achievements	Workshops							Manager/Chief Advisor
(5) Development of the necessary infrastructure for the Project activities								
1) Prepare the Project office	The Project office is operating in La Chorrera							Manager/Coordinator
2) Improve the facilities in the Sub-centre	Provision of equipment and installations							Manager/Coordinator

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Activities	Results	Calendar year					Person in charge
		2000	2001	2002	2003	2004	
1 Members of the farmer's groups assisted by the Project practice participatory activities that contribute to watershed conservation in a sustainable manner.							
(1) Prepare annual plans for training and exchanges							
1) Prepare annual plans for training courses for key actors	Annual training plans						Manager/Chief Advisor
2) Prepare annual plans of training courses for the farmers	Annual training plans						Manager/Chief Advisor
3) Prepare annual plans for exchanges	Annual plans for exchanges						Manager/Chief Advisor
(2) Execute the trainings							
1) Develop and improve the training materials and manuals	Materials and manuals						Each component
2) Solicit group participants	Lists of participants per course						Participatory Development
3) Execute trainings	Training courses						Each component
(3) Conduct exchanges of experiences outside of the Project							
1) Coordinate and select the exchange site	4 sights						Manager/Chief Advisor
2) Define the participants	Lists of participants						Manager/Chief Advisor
3) Execute exchanges	Reports of exchanges						Manager/Chief Advisor
(4) Monitoring and evaluation							
1) Monitor	Reports of exchanges						Participatory Development
2) Evaluate	Training reports						Participatory Development

Activities	Results	Calendar year					Person in charge
		2000	2001	2002	2003	2004	
2 Farmer's groups are strengthened to carry out participatory activities that contribute to watershed conservation.							
(1) Prepare annual work plans							
1) Coordinate with other projects	1 meeting every 6 months						Manager/Chief Advisor
2) Prepare annual work plans	Annual work plans						Manager/Chief Advisor
(2) Conduct experiments for the extension service							
1) Identify necessities	List of necessities						Agroforestry/Silviculture Each components Extensionist
2) Establish nursery and demonstration plots at Sub-centre	Nursery and plots						Agroforestry/Silviculture
2) Execute experiments	Executed experiments						Agroforestry/Silviculture
3) Validate results	Reports of evaluation						Agroforestry/Silviculture
(3) Execute extension service for the farmer groups and their individual farms							
1) Promote and organize groups	18 organized groups						Manager/Chief Advisor Participatory Development
2) Carry out participatory appraisals	18 PRA reports						Participatory Development
3) Make group action plans	18 action plans						Participatory Development
4) Plan individual farm activities	Activities developed on individual farms in 18 groups						Participatory Development
5) Carry out extension service for the groups and individual farms	a. Group visits b. Visits to the individual farms						Agroforestry Silviculture Extensionists
(4) Facilitate group exchange experiences among groups							
1) Promote exchange experiences	Exchanges per group						Participatory Development Participatory Development Extensionists
2) Provide logistical support for the exchanges	exchanges were supported						Participatory Development
(5) Monitoring and evaluation							
1) Monitor	Biannual evaluation report						Participatory Development Extensionists

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Activities	Results	Calendar year					Person in charge
		2000	2001	2002	2003	2004	
4 Understanding on watershed conservation and its importance are promoted among the participants of the environmental education programs.							
(1) Preparar anual work plans and materials for environmental education							
1) Conduct coordination meetings with related organizations and projects	1 meeting per year						Manager/Chief Advisor
2) Prepare annual work plans for environmental education	5 annual plans						Manager/Chief Advisor
3) Develop and improve the environmental education materials	Materials						Each component Extensionists
(2) Establish an educational forest							
1) Coordinate with the El Cacao sub-centre	1 meeting per year						Manager/Chief Advisor
2) Plan the activities	1 plan per year						Silviculture
3) Execute the field activities	Established educational forest						Silviculture
(3) Conduct environmental education activities							
1) Participate in the Natural Resources and Environment Month	Participate in events						Each Component Extensionists
2) Conduct talks	talks at school						Each component Extensionists
3) Carry out a field day	Field day						Extensionists
4) Participate in related events in the province of Panama	Participate in fairs						Each component Extensionists
(4) Monitoring and evaluation							
1) Monitor the activities	Monthly project report						Participatory Development Extensionists
2) Measure the effectiveness of the environmental education activities	Evaluation report						Participatory Development

12/2005

Record of Implementation of Input

-a. List of Experts Dispatched from Japan

1. Long term experts 6 experts

Speciality	No.	Name	Despach period
Chief Advisor/Silviculture	1	Yuzo Akutsu	2000/10/03~2003/04/20
	2	Kenichi Takano	2003/03/23~2005/09/30
Coordinator	3	Kazuo Fujishiro	2000/10/03~2004/10/02
	4	Nobuaki Hanawa	2003/09/21~2005/09/30
Agroforestry	5	Takashi Nakamura	2000/10/03~2003/07/20
	6	Kazutaka Imaki	2003/07/28~2005/09/30

2. Short term experts 11 experts

Japanese Fiscal year	Speciality	No.	Name	Dispatch period
2001	Tropical Agriculture	1	Kyosuke Yamagishi	2001/10/29~2001/12/20
	Participatory Development	2	Masahiro Amano	2001/11/17~2001/12/01
2002	Tropical Agriculture	3	Kyosuke Yamagishi	2002/05/10~2003/01/09
	Participatory Development	4	Masahiro Amano	2002/07/20~2002/08/05
	Tropical Fruits Cultivation	5	Isao Kishino	2003/02/01~2003/02/28
2003	PCM Methodology	6	Junko Noguchi	2003/09/27~2003/10/06
	Tropical Agriculture Cultivation	7	Keisuke Arai	2003/10/05~2003/12/18
	Participatory Development	8	Masahiro Amano	2004/03/20~2004/03/29
2004	Tropical Fruit Cultivation	9	Shoji Kawaguchi	2004/05/08~2004/05/30
	Soil diagnosis and Analysis	10	Kiyoko Hitsuda	2004/09/19~2004/10/11
	Participatory Development	11	Masahiro Amano	2005/03/06~2004/03/18

-b. List of Couterpart Personnel Trained in Japan

Japanese Fiscal year	Name	Position	Training them	Dispatch Period
2001	Ricardo Rivera	Project Director	Watershed Conservation	2001/10/27~11/12
	German Jaén	Agroforestry	Silviculture	2001/08/27~09/28

2002	Luis Vega	Silviculture	Silviculture	2002/10/03~12/04
	Juan Pablo Pinto	Extension worker	Organic Agriculture	2002/10/03~12/04
	Harmodio Estribí	Extension worker	Silviculture	2002/10/03~12/04
2003	Carlos Vásquez	Extension worker	Organic Agriculture	2003/10/03~11/28
	Aris Escobal	Extension worker	Organic Agriculture	2003/10/03~11/28
	Victoria Hultado	Participatory development	Participatory Development	2003/10/03~11/28
2004	Eric Rodríguez	Project Manager	Watershed Management	2004/10/11~11/09
	Alfonso Bosque	Extension worker	Organic Agriculture	2004/10/11~12/07
	Hector Vega	Extension worker	Organic Agriculture	2004/10/11~12/07
2005	Hilda Candanedo	Project Director	Watershed Management	2005/05/10~05/27
	Edgar Aranda (scheduled)	Extension worker	Organic Agriculture	2005/07/26~08/25

-c. List of the Machinery and Equipment Provided by Japanese Side

Japanese Fiscal year	Machinery and Equipment	Qua.	Price (US\$)	Place
2000	NISSAN Patrol SGL	1	33,311	Chorrera
	TOYOTA Hi-Lux	1	19,518	El Cacao
	Multi Projector 3M MP7630	2	3,715	Chorrera
	Computer Micron Millennia	1	2,195	Chorrera
	Digital Camera SONY DC-100	2	1,640	Chorrera
	Laser Printer CANON LBP-2460	2	2,039	Chorrera
	Portable Computer TOSHIBA Satellite 2210 XCDS	1	1,495	Chorrera
	Incubadora para Semilla Colo-Parmer Standard	1	4,092	Chorrera
	Air-conditioner Panasonic SC240KP	1	1,143	El Cacao
	Photocopier Canon NP7130	1	1,500	El Cacao
	Retroprojector 3M MP7630	2	7,430	El Cacao
	Laser Printer Canon LBP-2460	1	1,559	El Cacao
	Portable Computer TOSHIBA Satellite 2210XCDS	3	4,485	El Cacao
	NISSAN Patrol SGL	1	33,311	Chorrera
2001	TOYOTA Hi-Lux	1	19,769	Chorrera

	TOYOTA Hi-Lux	1	19,769	El Cacao
	JOHN DEERE Modelo 57151	1	50,112	El Cacao
	Computer Portatil TOSHIBA Satellite 1800-S207	1	1,649	Chorrera
	Pump Robin 5 . 0 HP 3" x 3"	1	1,845	El Cacao
	Cultivator Dardong DT-10D	1	3,800	El Cacao
	Planimeter TAMAYA Superplanix α	2	2,083	El Cacao
	Recording Rain Gauge OTA Keiki Recording Rain Gauge	1	2,398	El Cacao
	Instrument Shelter Myzox Instrument Shelter 60	1	911	El Cacao
	Cultivater Dardong DT-10D ND10D066MZHD	1	3,050	El Cacao
	Logosol Husqvarna 066MZHD	1	883	El Cacao
2002	TOYOTA Hi-Lux	1	18,230	El Cacao
	TOYOTA Hi-Lux	1	19,574	Chorrera
	Microphone Set YAMAHA EMX-68S-YAM-EMX-685	1	1,500	Chorrera
	Electric Generator YAMAHA EF2600	1	1,150	Chorrera
	Incubater Presion U-039350-10	1	5,520	El Cacao
2004	TOYOTA Hi-Lux	1	16,825	Chorrera
	Pilador SANSON Model VI-6	1	5,000	El Cacao

